

Courage to Soar			
2009 Mathematics			
Core Curriculum			
Iowa Mathematics			
Grades 3-5			
Activity/Lesson	State	Standards	
Kite Flight	IA	MA.3-5.4.3.4	Design investigations to address a question and consider how data collection methods affect the nature of the data set.
Soaring Higher	IA	MA.3-5.1.1.5	Be able to make comparisons involving multiplication and division, using such words as "twice as many" or "half as many".
Soaring Higher	IA	MA.3-5.1.2.4	Develop fluency with efficient procedures for multiplying and dividing whole numbers and use them to solve problems.
Flying a Styrofoam Plane	IA	MA.3-5.3.5.1	Develop measurement concepts and skills through experiences in analyzing attributes and properties of two- and three-dimensional objects.
Flying a Styrofoam Plane	IA	MA.3-5.3.6.1	Select appropriate units, strategies, and tools to solve problems that involve estimating and measuring perimeter, area and volume.
Looking for Answers:A research project	IA	MA.3-5.4.3.4	Design investigations to address a question and consider how data collection methods affect the nature of the data set.
Looking for Answers:A research project	IA	MA.3-5.4.5.2	Learn to estimate the probability of events as certain, equally likely or impossible by designing simple experiments to collect data and draw conclusions.
Controlling the Plane	IA	MA.3-5.4.1.2	Construct and analyze frequency tables, bar graphs, picture graphs, and line plots and use them to address a question.
Controlling the Plane	IA	MA.3-5.4.2.2	Learn to select and use measures of center: mean, median and mode and apply them to describing data sets.
Controlling the Plane	IA	MA.3-5.4.2.4	Begin to conceptually explore the meaning of mean as the balance point for the data set.